



**STATE OF TENNESSEE  
DEPARTMENT OF HEALTH  
ENVIRONMENTAL LABORATORIES**

TDH: Lab Services JRL  
Lab Services - Jackson Regional Lab  
Jackson, TN 38301  
731-426-0686

TDH: Lab Services KRL  
Lab Services - Knoxville Regional Lab  
Knoxville, TN 37920  
865-549-5201

TDH: Lab Services NCL  
Lab Services - Nashville Central Lab  
Nashville, TN 37243  
615-262-6300


**Sent To:** Geoff Klein  
TDEC-DWS  
200 East Race St  
Knoxville, TN 37763

**Lab ID:** N00004020  
Nashville Central Laboratory

**Sampling Agency:** TDEC: Division of Water Supply

**Billing Code:** 327.39-12

This is to certify that the following results were determined using  
good laboratory practices and in accordance with federal or state  
approved methodologies.

  
Analytical Supervisor

**Lab-Sample Number:** N00004020001  
**Project Name:**  
**Sample Description:** KINGSTON WTP  
**Sampler Project Name:** FINISH  
**Project Site No.:**  
**Station No.:**  
**Date/Time Collected:** 01/19/2009 08:15  
**Sampler's Name:** BRANDY LONG  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-DWS  
**Billing Code:** 327.39-12  
**Send Report To:** TDEC-DWS  
**Agency Invoiced:** TDEC-DWS  
**Priority Date:**  
**Date/Time Received:** 01/19/2009 10:35  
**Received By:** P Singh

**Field Determinations**

**pH:**  
**Chlorine, residual:**  
**Conductivity:**  
**Temperature:**  
**Dissolved Oxygen:**  
**Other:**  
**Flow:** CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	54	mg/L	3.8	10	S Burchfield	1/20/2009

TEST: Chloride by IC		METHOD: EPA 300.0				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Chloride by IC	17	mg/L	0.25	2.5	P Leathers	1/20/2009

TEST: Fluoride by IC		METHOD: EPA 300.0				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Fluoride by IC	1.1	mg/L	0.028	0.050	P Leathers	1/20/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	48	mg/L	0.7	1	P Leathers	1/20/2009

TEST: Sulfate by IC		METHOD: EPA 300.0				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Sulfate by IC	17	mg/L	0.39	2.5	P Leathers	1/20/2009

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**

**Lab-Sample Number:** N00004020002  
**Project Name:**  
**Sample Description:** KINGSTON WTP  
**Sampler Project Name:** RAW  
**Project Site No.:**  
**Station No.:**  
**Date/Time Collected:** 01/19/2009 08:20  
**Sampler's Name:** BRANDY LONG  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-DWS  
**Billing Code:** 327.39-12  
**Send Report To:** TDEC-DWS  
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**Priority Date:**  
**Date/Time Received:** 01/19/2009 10:35  
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**Field Determinations**

**pH:**  
**Chlorine, residual:**  
**Conductivity:**  
**Temperature:**  
**Dissolved Oxygen:**  
**Other:**  
**Flow:** CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	58	mg/L	3.8	10	S Burchfield	1/20/2009

TEST: Chloride by IC		METHOD: EPA 300.0				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Chloride by IC	9.4	mg/L	0.25	2.5	P Leathers	1/20/2009

TEST: Fluoride by IC		METHOD: EPA 300.0				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Fluoride by IC	0.084	mg/L	0.028	0.050	P Leathers	1/20/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	50	mg/L	0.7	1	P Leathers	1/20/2009

TEST: Sulfate by IC		METHOD: EPA 300.0				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Sulfate by IC	17	mg/L	0.39	2.5	P Leathers	1/20/2009

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**

**Lab-Sample Number:** N00004020003  
**Project Name:**  
**Sample Description:** ROCKWOOD WTP  
**Sampler Project Name:** RAW  
**Project Site No.:**  
**Station No.:**  
**Date/Time Collected:** 01/19/2009 08:50  
**Sampler's Name:** BRANDY LONG  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-DWS  
**Billing Code:** 327.39-12  
**Send Report To:** TDEC-DWS  
**Agency Invoiced:** TDEC-DWS  
**Priority Date:**  
**Date/Time Received:** 01/19/2009 10:35  
**Received By:** P Singh

**Field Determinations**

**pH:**  
**Chlorine, residual:**  
**Conductivity:**  
**Temperature:**  
**Dissolved Oxygen:**  
**Other:**  
**Flow:** CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	77	mg/L	3.8	10	S Burchfield	1/20/2009

TEST: Chloride by IC		METHOD: EPA 300.0				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Chloride by IC	5.7	mg/L	0.25	2.5	P Leathers	1/20/2009

TEST: Fluoride by IC		METHOD: EPA 300.0				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Fluoride by IC	0.069	mg/L	0.028	0.050	P Leathers	1/20/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	58	mg/L	0.7	1	P Leathers	1/20/2009

TEST: Sulfate by IC		METHOD: EPA 300.0				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Sulfate by IC	11	mg/L	0.39	2.5	P Leathers	1/20/2009

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**

**Lab-Sample Number:** N00004020004  
**Project Name:**  
**Sample Description:** ROCKWOOD WTP  
**Sampler Project Name:** FINISH  
**Project Site No.:**  
**Station No.:**  
**Date/Time Collected:** 01/19/2009 08:55  
**Sampler's Name:** BRANDY LONG  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-DWS  
**Billing Code:** 327.39-12  
**Send Report To:** TDEC-DWS  
**Agency Invoiced:** TDEC-DWS  
**Priority Date:**  
**Date/Time Received:** 01/19/2009 10:35  
**Received By:** P Singh

**Field Determinations**

**pH:**  
**Chlorine, residual:**  
**Conductivity:**  
**Temperature:**  
**Dissolved Oxygen:**  
**Other:**  
**Flow:** CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	74	mg/L	3.8	10	S Burchfield	1/20/2009

TEST: Chloride by IC		METHOD: EPA 300.0				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Chloride by IC	12	mg/L	0.25	2.5	P Leathers	1/20/2009

TEST: Fluoride by IC		METHOD: EPA 300.0				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Fluoride by IC	1.2	mg/L	0.028	0.050	P Leathers	1/20/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	58	mg/L	0.7	1	P Leathers	1/20/2009

TEST: Sulfate by IC		METHOD: EPA 300.0				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Sulfate by IC	11	mg/L	0.39	2.5	P Leathers	1/20/2009

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**



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Knoxville, TN 37920  
865-549-5201

TDH: Lab Services NCL  
Lab Services - Nashville Central Lab  
Nashville, TN 37243  
615-262-6300

**Sent To:** Geoff Klein  
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200 East Race St  
Knoxville, TN 37763

**Lab ID:** N00004020  
Nashville Central Laboratory

**Sampling Agency:** TDEC: Division of Water Supply

**Billing Code:** 327.39-12

This is to certify that the following results were determined using  
good laboratory practices and in accordance with federal or state  
approved methodologies.

*Craig Edwards*

Analytical Supervisor

**Lab-Sample Number:** N00004020001  
**Project Name:**  
**Sample Description:** KINGSTON WTP  
**Sampler Project Name:** FINISH  
**Project Site No.:**  
**Station No.:**  
**Date/Time Collected:** 01/19/2009 08:15  
**Sampler's Name:** BRANDY LONG  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-DWS  
**Billing Code:** 327.39-12  
**Send Report To:** TDEC-DWS  
**Agency Invoiced:** TDEC-DWS  
**Priority Date:**  
**Date/Time Received:** 01/19/2009 10:35  
**Received By:** P Singh

**Field Determinations**

**pH:**  
**Chlorine, residual:**  
**Conductivity:**  
**Temperature:**  
**Dissolved Oxygen:**  
**Other:**  
**Flow:** CFS

TEST: Digestion Metals			METHOD: EPA 200.2			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	01/20/2009				M Pattanayek	1/20/2009

TEST: ICP			METHOD: EPA 200.7			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium	19	mg/L	0.034	0.10	M Pattanayek	1/20/2009
Iron	4.4J	µg/L	2.9	10	M Pattanayek	1/20/2009
Magnesium	4.7	mg/L	0.070	0.10	M Pattanayek	1/20/2009
Potassium	2.0	mg/L	0.024	0.10	M Pattanayek	1/20/2009
Sodium	14	mg/L	0.027	0.10	M Pattanayek	1/20/2009

TEST: ICP-MS			METHOD: EPA 200.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	45	µg/L	6.4	10	A Wilson	1/20/2009
Antimony	0.62J	µg/L	0.33	1	A Wilson	1/20/2009
Arsenic	U	µg/L	0.93	5	A Wilson	1/20/2009
Barium	21	µg/L	2.5	5	A Wilson	1/20/2009
Beryllium	U	µg/L	0.11	1	A Wilson	1/20/2009
Cadmium	U	µg/L	0.41	1	A Wilson	1/20/2009
Chromium	U	µg/L	2.0	5	A Wilson	1/20/2009
Cobalt	0.10J	µg/L	0.04	1	A Wilson	1/20/2009
Copper	6.0	µg/L	0.38	1	A Wilson	1/20/2009
Lead	0.11J	µg/L	0.10	1	A Wilson	1/20/2009
Manganese	U	µg/L	0.42	1	A Wilson	1/20/2009
Molybdenum	1.2	µg/L	0.04	1	A Wilson	1/20/2009
Nickel	0.66J	µg/L	0.25	1	A Wilson	1/20/2009
Selenium	U	µg/L	1.3	5	A Wilson	1/20/2009
Silver	U	µg/L	0.03	0.25	A Wilson	1/20/2009
Strontium	72	µg/L	0.47	1	A Wilson	1/20/2009
Thallium	0.69J	µg/L	0.03	1	A Wilson	1/20/2009

Lab-Sample Number: N00004020001  
Project Name:  
Sample Description: KINGSTON WTP  
Sampler Project Name: FINISH  
Project Site No.:  
Station No.:  
Date/Time Collected: 01/19/2009 08:15  
Sampler's Name: BRANDY LONG  
County: ROANE - 73  
Sample Matrix: Water  
EFO: Knoxville  
Sampling Agency: TDEC-DWS  
Billing Code: 327.39-12  
Send Report To: TDEC-DWS  
Agency Invoiced: TDEC-DWS  
Priority Date:  
Date/Time Received: 01/19/2009 10:35  
Received By: P Singh

**Field Determinations**

pH:

Chlorine, residual:

Conductivity:

Temperature:

Dissolved Oxygen:

Other:

Flow:

CFS

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Uranium	0.02J	µg/L	0.01	1	A Wilson	1/20/2009
Vanadium	U	µg/L	3.4	5	A Wilson	1/20/2009
Zinc	4.8J	µg/L	1.9	5	A Wilson	1/20/2009

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.13	0.2	A Wilson	1/20/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected



**Lab-Sample Number:** N00004020002  
**Project Name:**  
**Sample Description:** KINGSTON WTP  
**Sampler Project Name:** RAW  
**Project Site No.:**  
**Station No.:**  
**Date/Time Collected:** 01/19/2009 08:20  
**Sampler's Name:** BRANDY LONG  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-DWS  
**Billing Code:** 327-39-12  
**Send Report To:** TDEC-DWS  
**Agency Invoiced:** TDEC-DWS  
**Priority Date:**  
**Date/Time Received:** 01/19/2009 10:35  
**Received By:** P Singh

**Field Determinations**

**pH:**  
**Chlorine, residual:**  
**Conductivity:**  
**Temperature:**  
**Dissolved Oxygen:**  
**Other:**  
**Flow:** CFS

TEST: Digestion Metals			METHOD: EPA 200.2			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	01/20/2009				M Pattanayek	1/20/2009

TEST: ICP			METHOD: EPA 200.7			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium	19	mg/L	0.034	0.10	M Pattanayek	1/20/2009
Iron	730	µg/L	2.9	10	M Pattanayek	1/20/2009
Magnesium	4.8	mg/L	0.070	0.10	M Pattanayek	1/20/2009
Potassium	2.0	mg/L	0.024	0.10	M Pattanayek	1/20/2009
Sodium	9.7	mg/L	0.027	0.10	M Pattanayek	1/20/2009

TEST: ICP-MS			METHOD: EPA 200.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	880	µg/L	6.4	10	A Wilson	1/20/2009
Antimony	U	µg/L	0.33	1	A Wilson	1/20/2009
Arsenic	U	µg/L	0.93	5	A Wilson	1/20/2009
Barium	27	µg/L	2.5	5	A Wilson	1/20/2009
Beryllium	U	µg/L	0.11	1	A Wilson	1/20/2009
Cadmium	U	µg/L	0.41	1	A Wilson	1/20/2009
Chromium	U	µg/L	2.0	5	A Wilson	1/20/2009
Cobalt	0.43J	µg/L	0.04	1	A Wilson	1/20/2009
Copper	4.1	µg/L	0.38	1	A Wilson	1/20/2009
Lead	0.89J	µg/L	0.10	1	A Wilson	1/20/2009
Manganese	100	µg/L	0.42	1	A Wilson	1/20/2009
Molybdenum	0.67J	µg/L	0.04	1	A Wilson	1/20/2009
Nickel	1.0	µg/L	0.25	1	A Wilson	1/20/2009
Selenium	U	µg/L	1.3	5	A Wilson	1/20/2009
Silver	U	µg/L	0.03	0.25	A Wilson	1/20/2009
Strontium	73	µg/L	0.47	1	A Wilson	1/20/2009
Thallium	0.25J	µg/L	0.03	1	A Wilson	1/20/2009

Lab-Sample Number: N00004020002  
Project Name:  
Sample Description: KINGSTON WTP  
Sampler Project Name: RAW  
Project Site No.:  
Station No.:  
Date/Time Collected: 01/19/2009 08:20  
Sampler's Name: BRANDY LONG  
County: ROANE - 73  
Sample Matrix: Water  
EFO: Knoxville  
Sampling Agency: TDEC-DWS  
Billing Code: 327.39-12  
Send Report To: TDEC-DWS  
Agency Invoiced: TDEC-DWS  
Priority Date:  
Date/Time Received: 01/19/2009 10:35  
Received By: P Singh

**Field Determinations**

pH:  
Chlorine, residual:  
Conductivity:  
Temperature:  
Dissolved Oxygen:  
Other:  
Flow: CFS

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Uranium	0.17J	µg/L	0.01	1	A Wilson	1/20/2009
Vanadium	U	µg/L	3.4	5	A Wilson	1/20/2009
Zinc	51	µg/L	1.9	5	A Wilson	1/20/2009

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.13	0.2	A Wilson	1/20/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number: N00004020003

Project Name:

Sample Description: ROCKWOOD WTP

Sampler Project Name: RAW

Project Site No.:

Station No.:

Date/Time Collected: 01/19/2009 08:50

Sampler's Name: BRANDY LONG

County: ROANE - 73

Sample Matrix: Water

EFO: Knoxville

Sampling Agency: TDEC-DWS

Billing Code: 327.39-12

Send Report To: TDEC-DWS

Agency Invoiced: TDEC-DWS

Priority Date:

Date/Time Received: 01/19/2009 10:35

Received By: P Singh

Field Determinations

pH:

Chlorine, residual:

Conductivity:

Temperature:

Dissolved Oxygen:

Other:

Flow:

CFS

TEST: Digestion Metals

METHOD: EPA 200.2

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	01/20/2009				M Pattanayek	1/20/2009

TEST: ICP

METHOD: EPA 200.7

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium	21	mg/L	0.034	0.10	M Pattanayek	1/20/2009
Iron	47	µg/L	2.9	10	M Pattanayek	1/20/2009
Magnesium	7.3	mg/L	0.070	0.10	M Pattanayek	1/20/2009
Potassium	1.5	mg/L	0.024	0.10	M Pattanayek	1/20/2009
Sodium	5.6	mg/L	0.027	0.10	M Pattanayek	1/20/2009

TEST: ICP-MS

METHOD: EPA 200.8

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	48	µg/L	6.4	10	A Wilson	1/20/2009
Antimony	U	µg/L	0.33	1	A Wilson	1/20/2009
Arsenic	U	µg/L	0.93	5	A Wilson	1/20/2009
Barium	28	µg/L	2.5	5	A Wilson	1/20/2009
Beryllium	U	µg/L	0.11	1	A Wilson	1/20/2009
Cadmium	U	µg/L	0.41	1	A Wilson	1/20/2009
Chromium	U	µg/L	2.0	5	A Wilson	1/20/2009
Cobalt	0.09J	µg/L	0.04	1	A Wilson	1/20/2009
Copper	1.3	µg/L	0.38	1	A Wilson	1/20/2009
Lead	0.11J	µg/L	0.10	1	A Wilson	1/20/2009
Manganese	7.3	µg/L	0.42	1	A Wilson	1/20/2009
Molybdenum	0.47J	µg/L	0.04	1	A Wilson	1/20/2009
Nickel	0.54J	µg/L	0.25	1	A Wilson	1/20/2009
Selenium	U	µg/L	1.3	5	A Wilson	1/20/2009
Silver	U	µg/L	0.03	0.25	A Wilson	1/20/2009
Strontium	52	µg/L	0.47	1	A Wilson	1/20/2009
Thallium	0.13J	µg/L	0.03	1	A Wilson	1/20/2009

**Lab-Sample Number:** N00004020003  
**Project Name:**  
**Sample Description:** ROCKWOOD WTP  
**Sampler Project Name:** RAW  
**Project Site No.:**  
**Station No.:**  
**Date/Time Collected:** 01/19/2009 08:50  
**Sampler's Name:** BRANDY LONG  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-DWS  
**Billing Code:** 327.39-12  
**Send Report To:** TDEC-DWS  
**Agency Invoiced:** TDEC-DWS  
**Priority Date:**  
**Date/Time Received:** 01/19/2009 10:35  
**Received By:** P Singh

**Field Determinations**

**pH:**  
**Chlorine, residual:**  
**Conductivity:**  
**Temperature:**  
**Dissolved Oxygen:**  
**Other:**  
**Flow:** CFS

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Uranium	0.15J	µg/L	0.01	1	A Wilson	1/20/2009
Vanadium	U	µg/L	3.4	5	A Wilson	1/20/2009
Zinc	18	µg/L	1.9	5	A Wilson	1/20/2009

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.13	0.2	A Wilson	1/20/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

**Lab-Sample Number:** N00004020004  
**Project Name:**  
**Sample Description:** ROCKWOOD WTP  
**Sampler Project Name:** FINISH  
**Project Site No.:**  
**Station No.:**  
**Date/Time Collected:** 01/19/2009 08:55  
**Sampler's Name:** BRANDY LONG  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
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# Field Determinations

**pH:**  
**Chlorine, residual:**  
**Conductivity:**  
**Temperature:**  
**Dissolved Oxygen:**  
**Other:**  
**Flow:** CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	01/20/2009				M Pattanayek	1/20/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium	23	mg/L	0.034	0.10	M Pattanayek	1/20/2009
Iron	U	µg/L	2.9	10	M Pattanayek	1/20/2009
Magnesium	8.2	mg/L	0.070	0.10	M Pattanayek	1/20/2009
Potassium	1.6	mg/L	0.024	0.10	M Pattanayek	1/20/2009
Sodium	6.2	mg/L	0.027	0.10	M Pattanayek	1/20/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	31	µg/L	6.4	10	A Wilson	1/20/2009
Antimony	U	µg/L	0.33	1	A Wilson	1/20/2009
Arsenic	U	µg/L	0.93	5	A Wilson	1/20/2009
Barium	27	µg/L	2.5	5	A Wilson	1/20/2009
Beryllium	U	µg/L	0.11	1	A Wilson	1/20/2009
Cadmium	U	µg/L	0.41	1	A Wilson	1/20/2009
Chromium	U	µg/L	2.0	5	A Wilson	1/20/2009
Cobalt	0.06J	µg/L	0.04	1	A Wilson	1/20/2009
Copper	U	µg/L	0.38	1	A Wilson	1/20/2009
Lead	U	µg/L	0.10	1	A Wilson	1/20/2009
Manganese	1.2	µg/L	0.42	1	A Wilson	1/20/2009
Molybdenum	0.39J	µg/L	0.04	1	A Wilson	1/20/2009
Nickel	0.74J	µg/L	0.25	1	A Wilson	1/20/2009
Selenium	U	µg/L	1.3	5	A Wilson	1/20/2009
Silver	U	µg/L	0.03	0.25	A Wilson	1/20/2009
Strontium	50	µg/L	0.47	1	A Wilson	1/20/2009
Thallium	0.09J	µg/L	0.03	1	A Wilson	1/20/2009

Lab-Sample Number: N00004020004  
Project Name:  
Sample Description: ROCKWOOD WTP  
Sampler Project Name: FINISH  
Project Site No.:  
Station No.:  
Date/Time Collected: 01/19/2009 08:55  
Sampler's Name: BRANDY LONG  
County: ROANE - 73  
Sample Matrix: Water  
EFO: Knoxville  
Sampling Agency: TDEC-DWS  
Billing Code: 327.39-12  
Send Report To: TDEC-DWS  
Agency Invoiced: TDEC-DWS  
Priority Date:  
Date/Time Received: 01/19/2009 10:35  
Received By: P Singh

**Field Determinations**

pH:

Chlorine, residual:

Conductivity:

Temperature:

Dissolved Oxygen:

Other:

Flow:

CFS

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Uranium	0.01J	µg/L	0.01	1	A Wilson	1/20/2009
Vanadium	U	µg/L	3.4	5	A Wilson	1/20/2009
Zinc	21	µg/L	1.9	5	A Wilson	1/20/2009

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.13	0.2	A Wilson	1/20/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected